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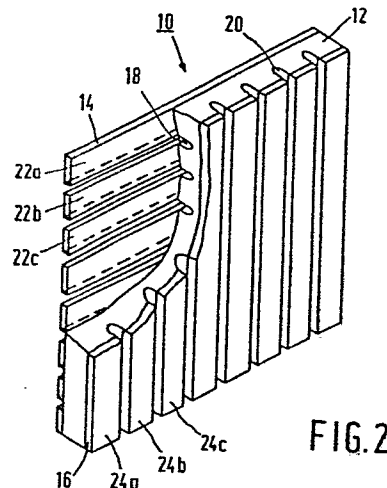
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**Biplane phased array transducer for ultrasonic medical imaging.**

An improved biplane phased array transducer for real time medical imaging in at least two sector planes having a piezoelectric plate (12) with an array of transducer elements (22a, 22b, 22c,...); 24a, 24b, 24c,...) disposed on each major surface of said plate, the array (22a, 22b,...) on one side being at an angle to the array (24a, 24b,...) on the other side, said transducer elements being defined by dicing each major surface of said composite plate through the conductive electrode surface (14, 16) and into a portion of the piezoelectric material, and electrical connections provided whereby each array may be grounded alternately so that real time sector imaging in two planes is obtained.



**FIG. 2**



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	FR-A-2 400 814 (WESTINGHOUSE ELECTRIC) * Page 6, line 24 - page 7, line 18; figures 7,7a,7b *	1,3,5	G 10 K 11/34
X	DE-A-2 946 485 (STRAHLEN- UND UMWELTFORSCHUNG GmbH) * Page 5, lines 3-18; figure 2 *	1	
A	US-A-4 112 411 (ALAIS et al.)		
A	DE-A-3 219 299 (SIEMENS AG)		
E	EP-A-0 206 432 (NORTH AMERICAN PHILIPS) * Abstract; page 2, line 10 - page 3, line 22; page 4, line 3 - page 6, line 12; page 7; claim 1 *	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl.4) G 10 K G 01 S
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29-09-1987	Examiner OLDROYD D.L.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>			